

Weihe50

Build instructions



Specifications	
Wing Span	109 in / 2770mm
Wing Area	51.24 sq dm
Flying weight	1.2kg-1.4kg
Fuselage length	1241mm
Scale	1 / 6.5

Requires
RC transmitter with at least 4 channels
Tail: 9g servos(ES08/DS395)*2
Aileron: 9mm Thin servos (ES3301/ES3302)*2



Tony Ray's AeroModel

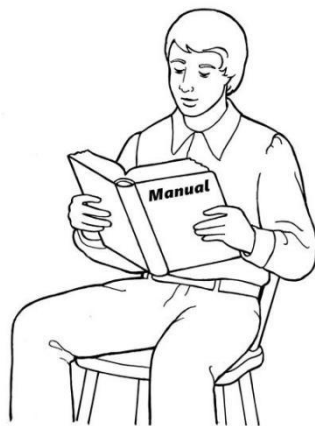
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BEFORE YOU BEGIN

Attentions and Tips

1. Read through the manual before you begin, so you will have an overall idea of what to do.
2. Check all parts. If you find any serious defects or missing parts, please contact your local dealer.
3. Please build your kit in strict accordance with the sequence of the user manual.
4. Pre-Sanding: Before removing any parts from the laser-cut plywood sheet, use a sanding block loaded with 250 - 400 grit sandpaper and lightly sand the back side of the sheet. Which can significantly reduce burn marks of the wood and make the parts match better
5. Before building the model part on drawings, It is recommended to cover a layer of kitchen cling film (polyethylene film) on the drawing. This way can prevent parts from sticking to the drawing and causing damage.
6. Parts Assembly: This product's tabs and notches interlock like a 3D puzzle. We strongly suggest that when fitting parts, you "dry fit" (use no glue) the parts together first. It is advised to work 1 - 2 steps ahead in the instructions, using this dry-fit technique. This allows the opportunity to inspect the fit and location of assembled components, and shows the benefits of our construction technique. As each successive part is added, it contributes to pulling the entire assembly square. Once you arrive at the end of a major assembly sequence, square your work on a flat work surface, and bond the dry-fit joints with glue. Using the dry-fit process, you'll be able to recover from a minor build mistake, and will ultimately end up with a square and true assembly.
7. This is a precision laser-cut kit. Our lasers cut to within 0.2mm in accuracy. Yet the wood stock supplied to us by the mill may vary in thickness by up to 0.2-0.3mm. This variance in the wood stock can cause some tabs and notches to fit very tightly. With this in mind, consider lightly sanding or lightly pinching a tight-fitting tab, rather than forcing the parts together. You may break some parts in assembly, but please don't worry, after the final covering work, it will not affect the strength and appearance of your model. You will end up with a circle and true airframe.



KIT INVENTORY



Sheet Wood Inventory		
Item:	Mark	Quantity
1. 0mm Balsa	E series: E1-E2	2
1. 5mm balsa	A series: A1-A8	16
3. 0mm balsa	B series: B1-B4	7
1. 5mm Paulownia	C series: C1-C2	4
2. 0mm Plywood	D series: D1-D5	5
1. 5mm Plywood	F series: F1	1

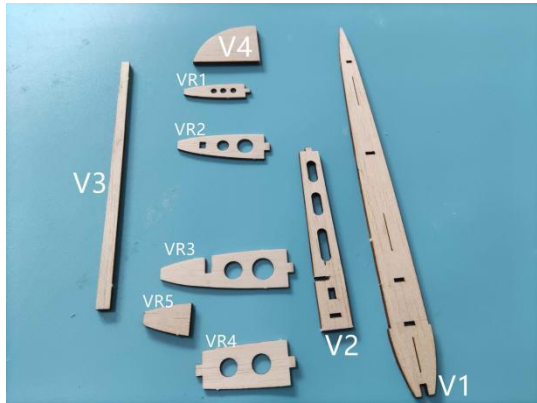
Wood Strips Inventory	
3*3mm Balsa (length 70+30cm)	8
3*3mm Pine (length 70+30cm)	2
4*4mm Pine (length 50cm)	4
2*6mm Pine (length 70+30cm)	5

Hardware parts	
Blister PVC canopy(Front)	1
PVC Tube	2
1.0mm Steel Wire	2
Plastic collet	2
Plastic Hinge	8
Paper Hinge	1
M2*8 Screws (Spacer Version)	10
M2*10 Screws	4
M3*25 Screws	3
M2 Screw nut	4
M3 Four Claws Nut	3
M2 Steel push rod (Thread at both ends Length:25mm)	2
Rudder horn	4
M2 ball joint connector	4
M5*2 Mini magnet	8

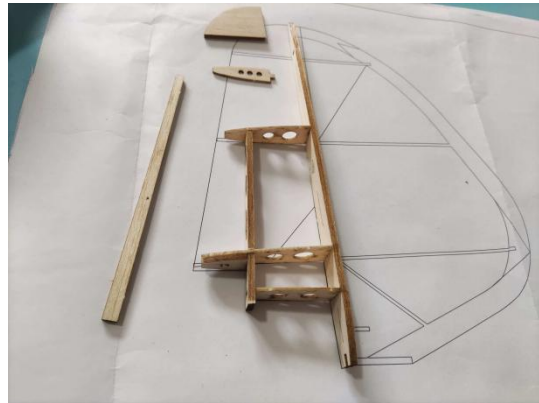
Paper parts	
1:1 drawings	2

Part1.Vertical Tail

Step 1



Step 2



Step 3



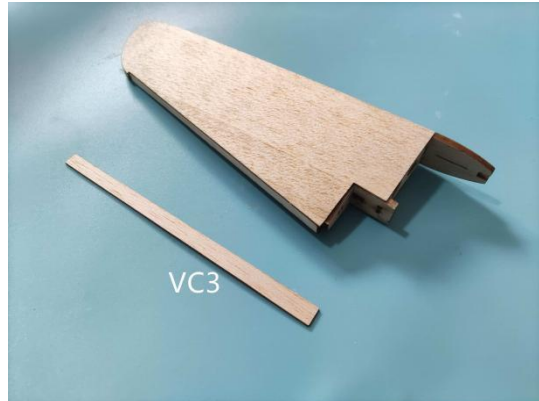
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Step 5



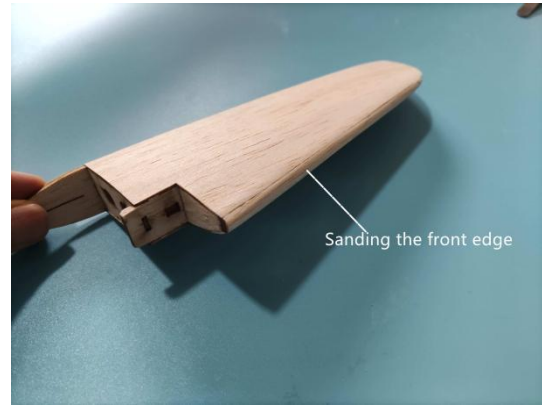
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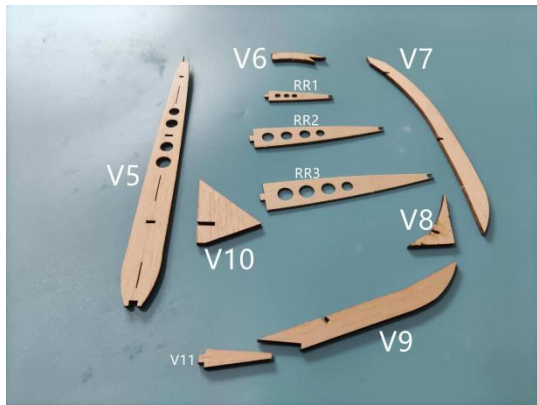
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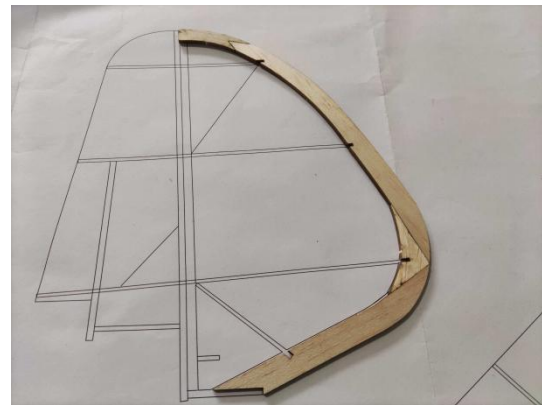
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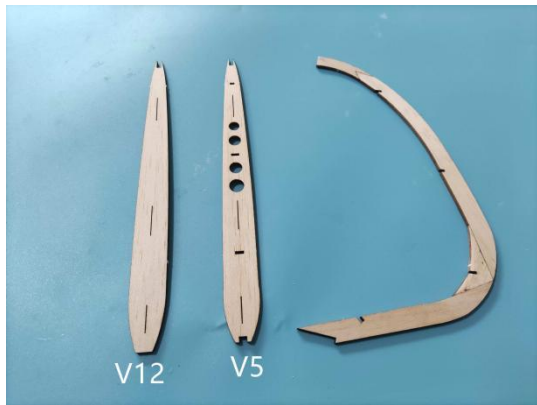
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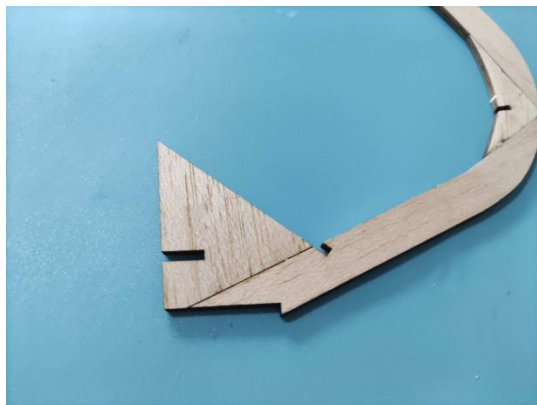
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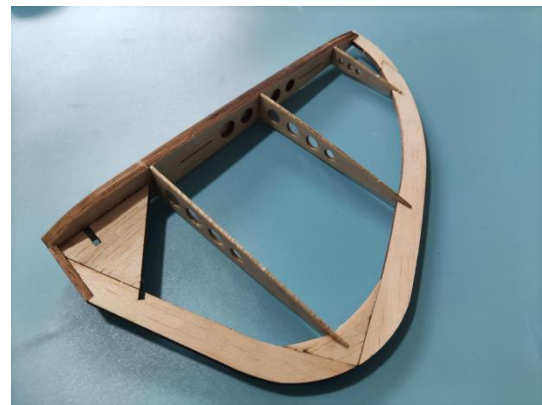
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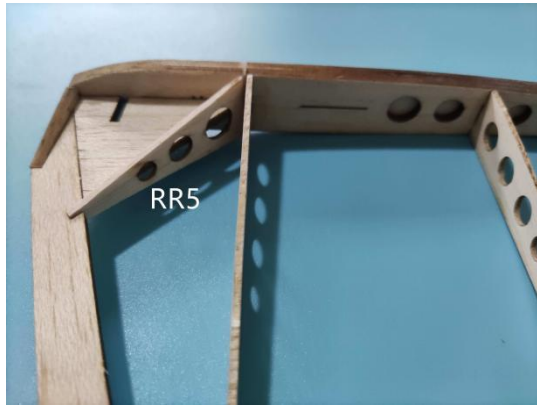
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Step 14



Step 15



Step 16



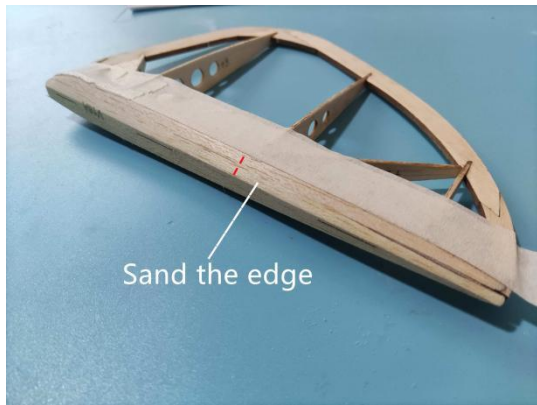
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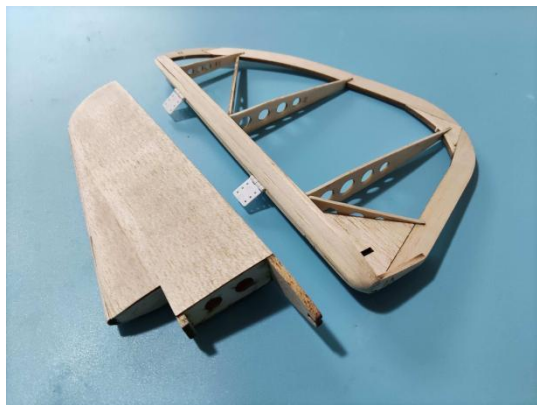
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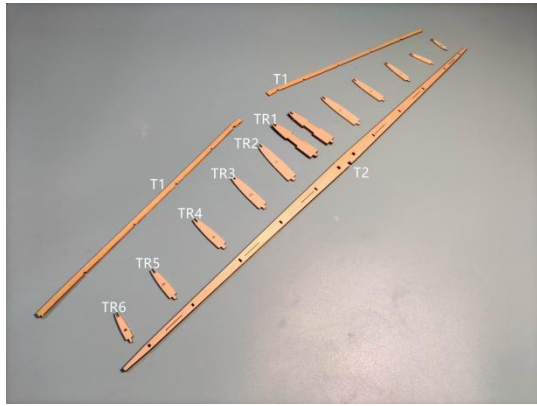
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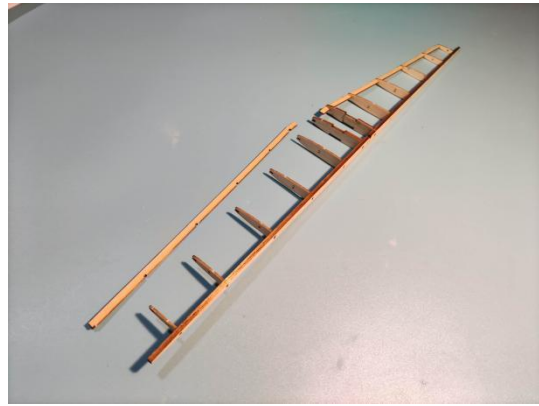
Builder's note:

Part2. Horizontal Tail

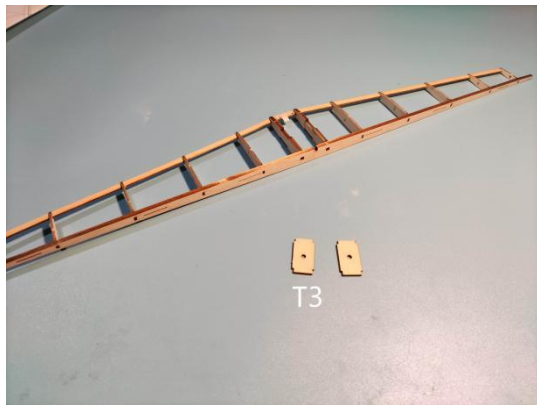
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Step 2



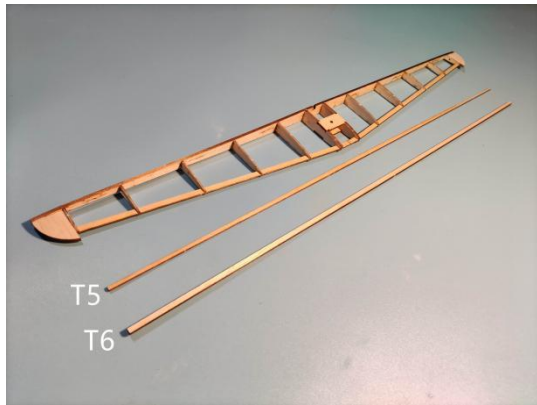
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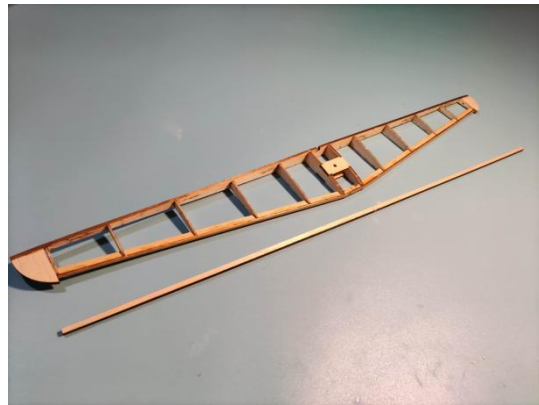
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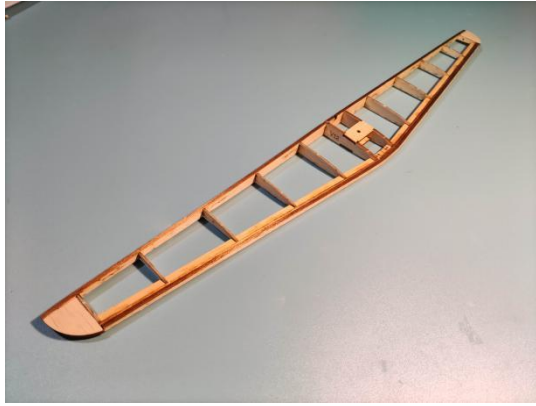
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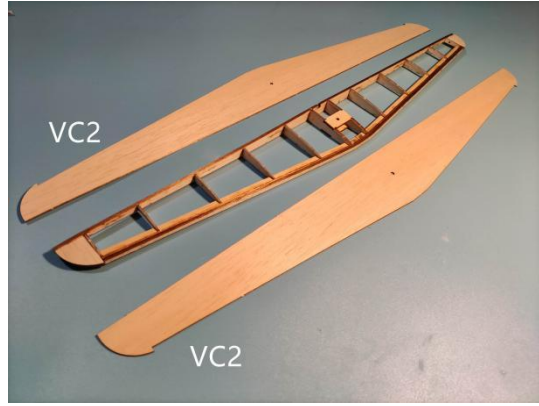
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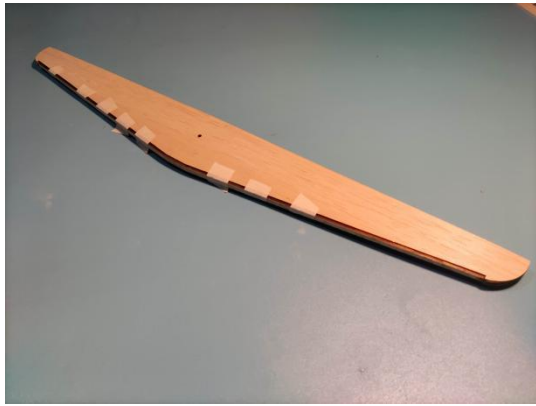
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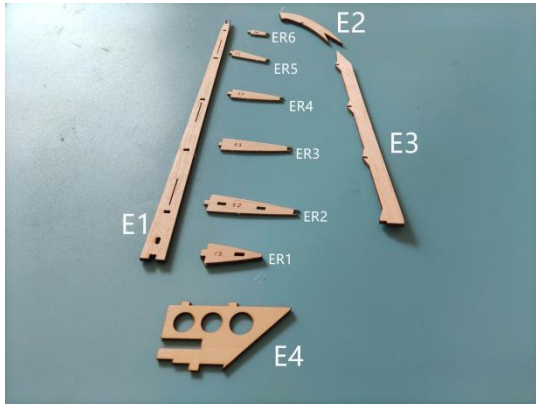
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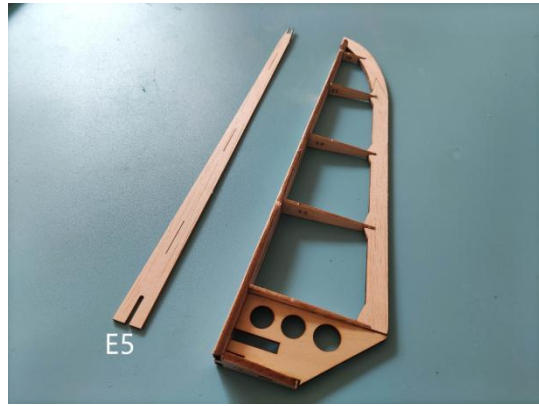
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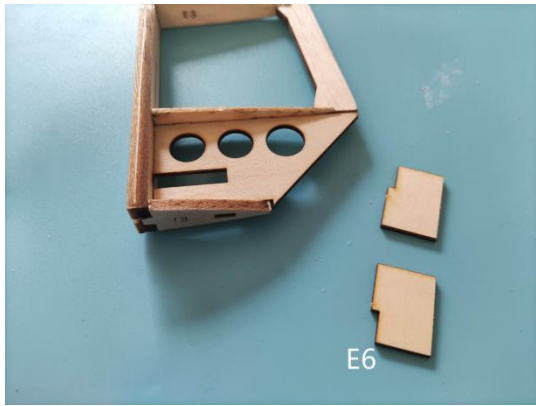
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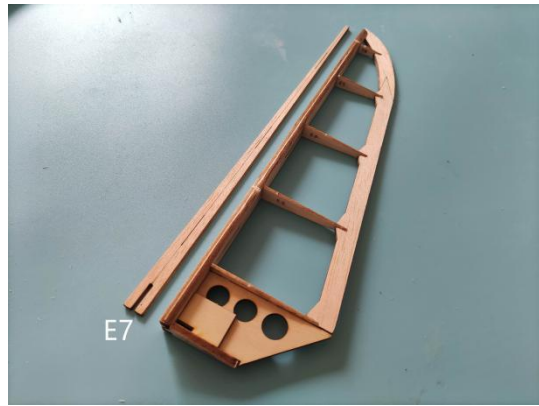
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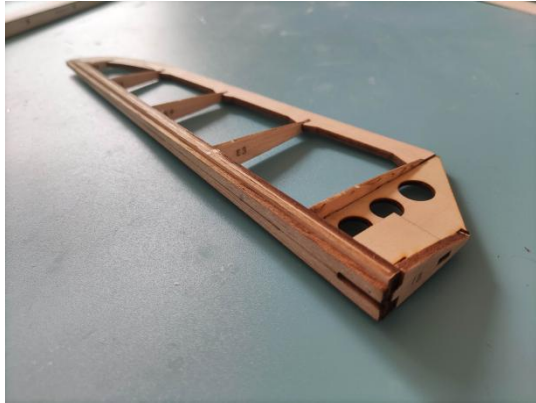
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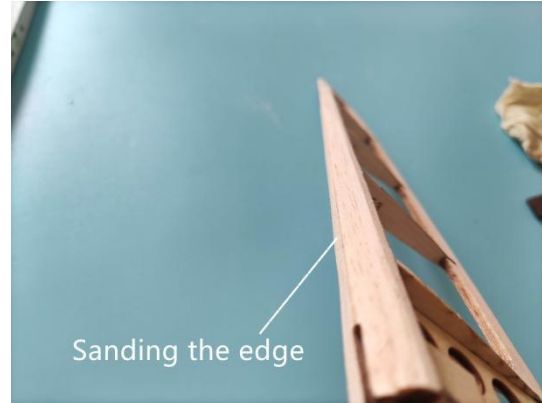
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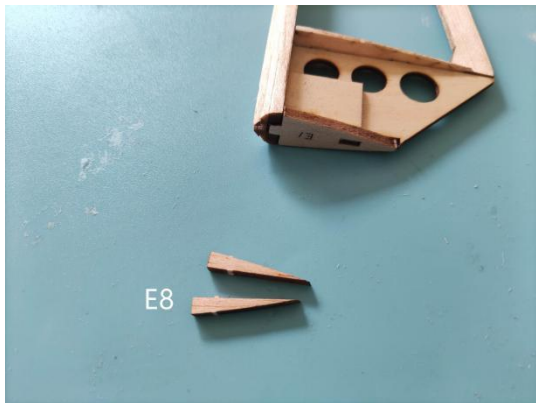
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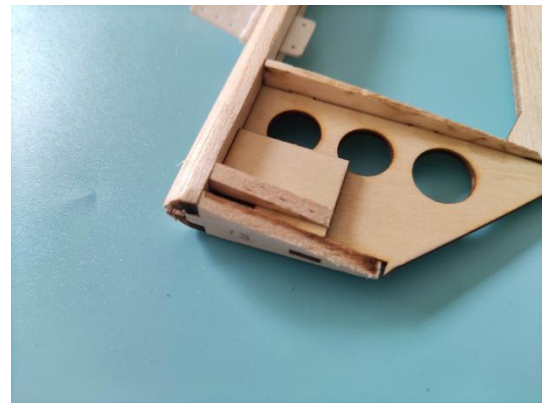
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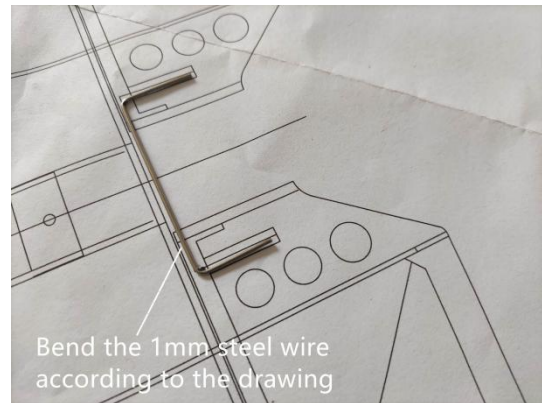
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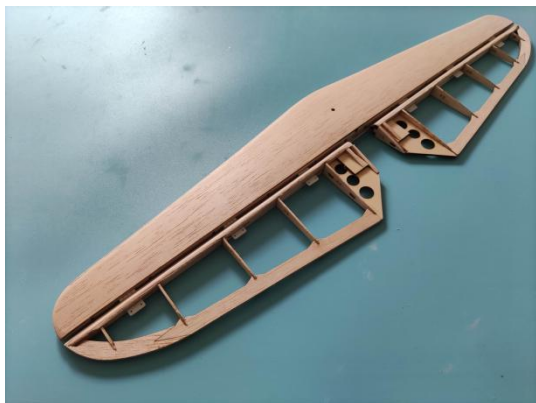
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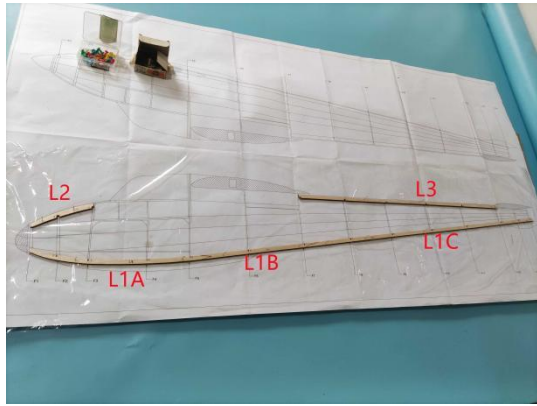
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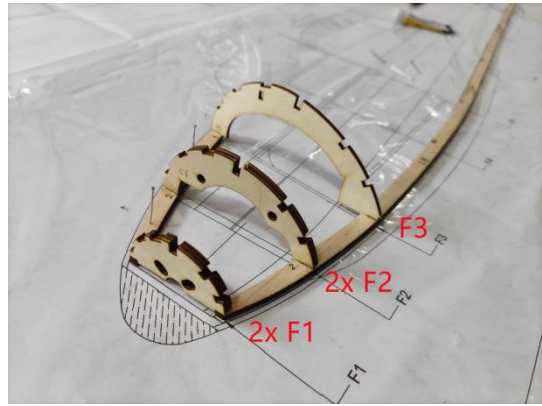
Builder's note:

Part3. Fuselage I

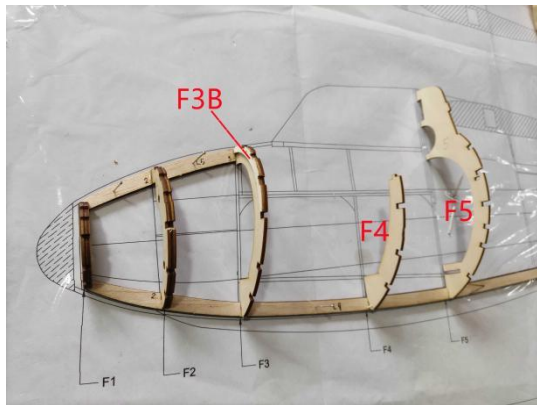
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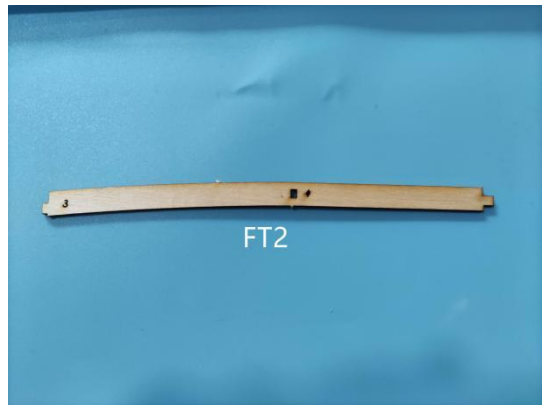
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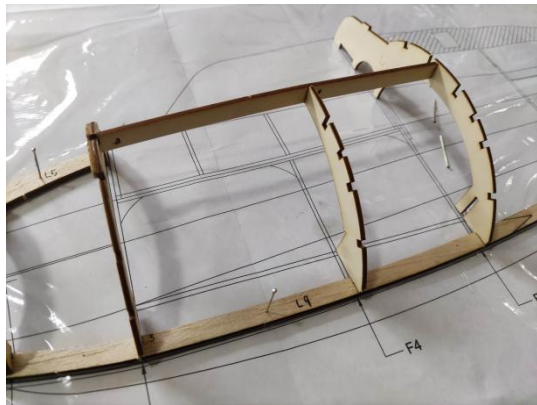
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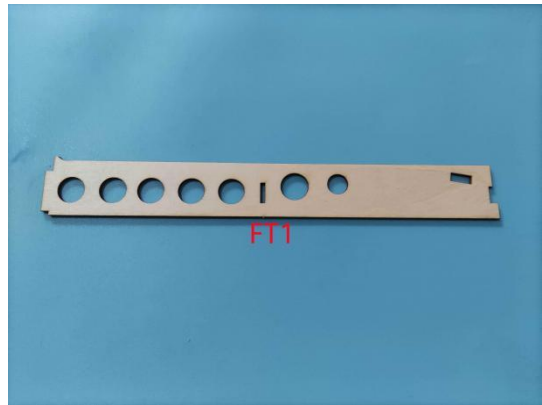
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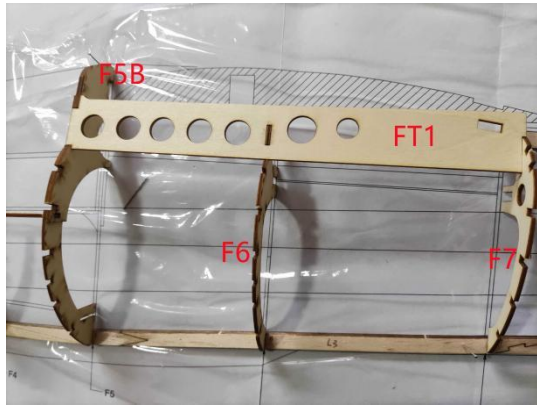
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Step 6



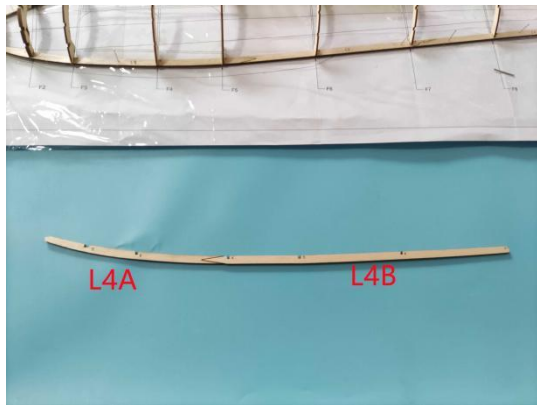
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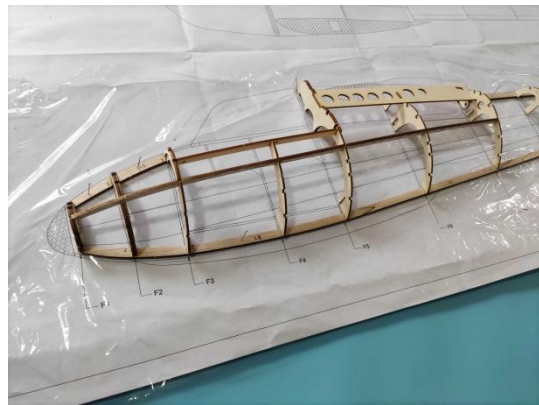
Step 8



Step 9



Step 10



Step 11



Step 12



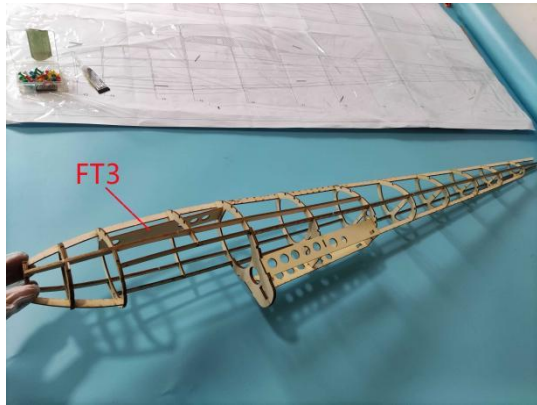
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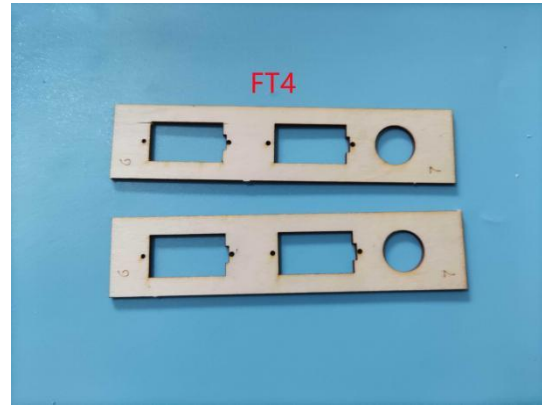
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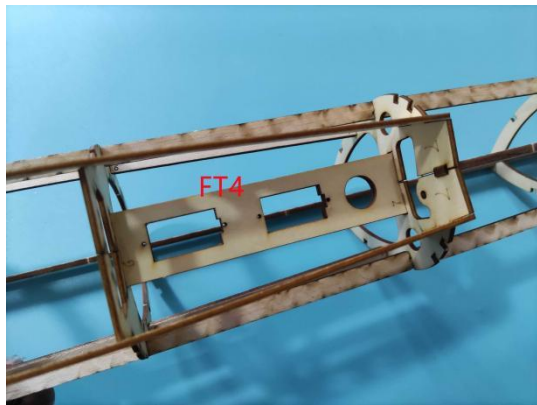
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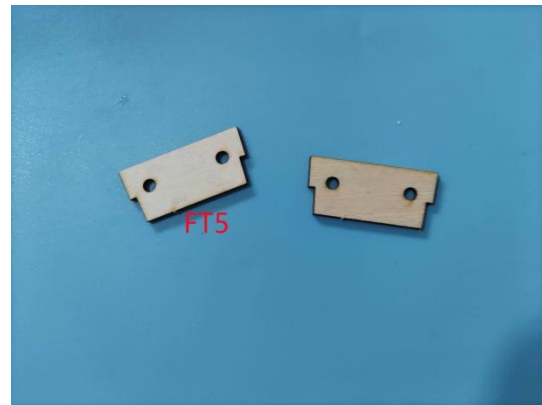
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Step 17



Step 18



Step 19



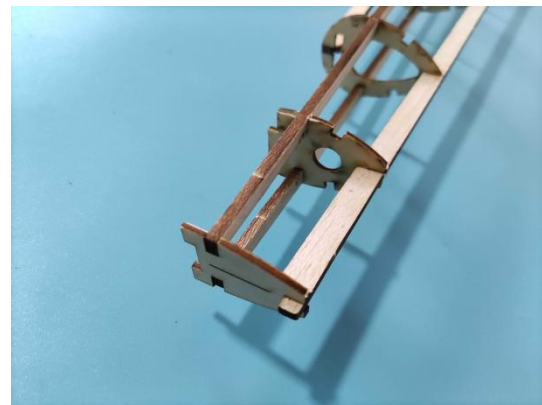
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Step 21



Step 22



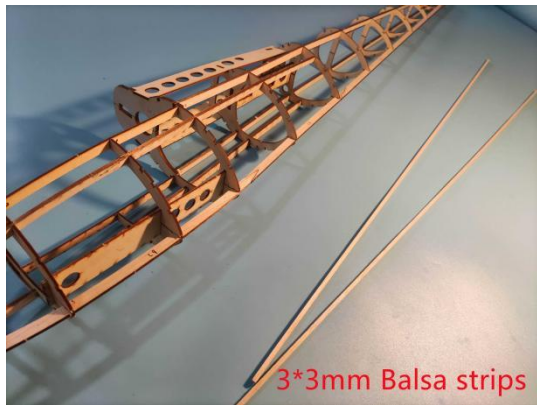
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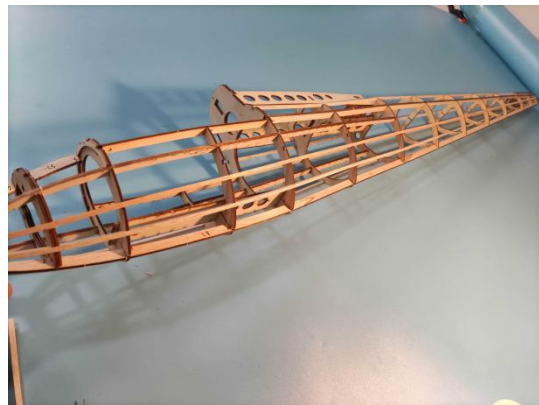
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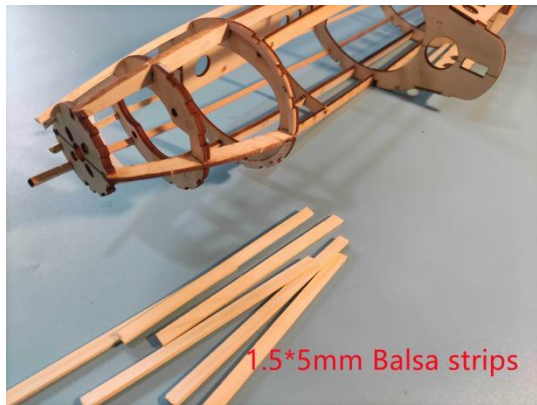
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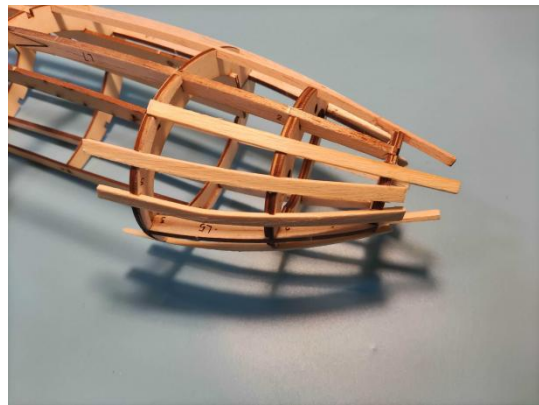
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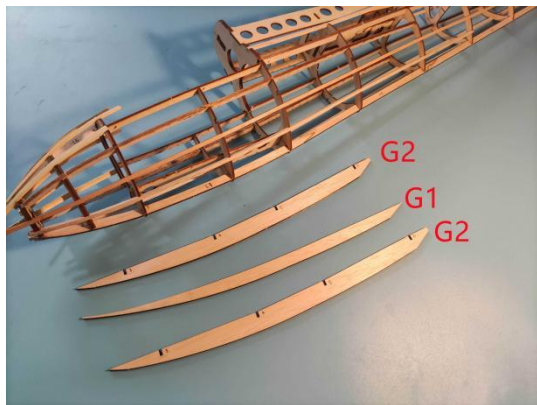
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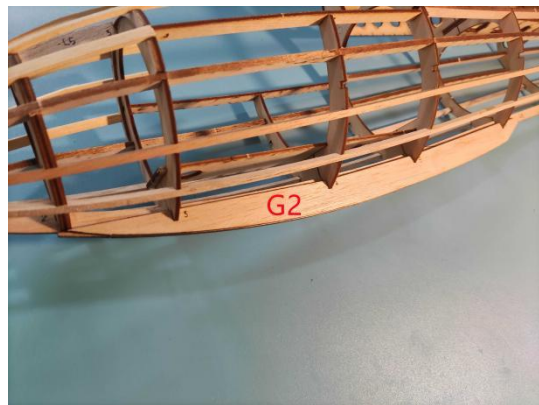
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Step 29



Step 30



Step 31



Step 32



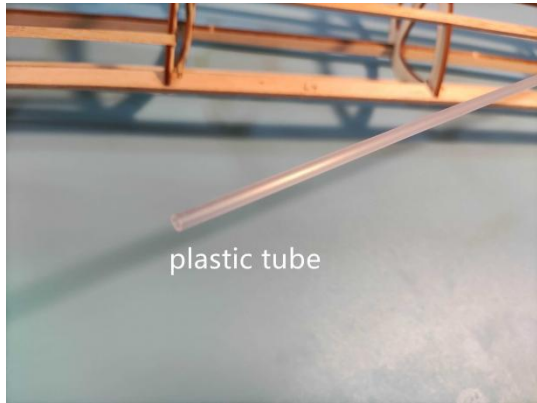
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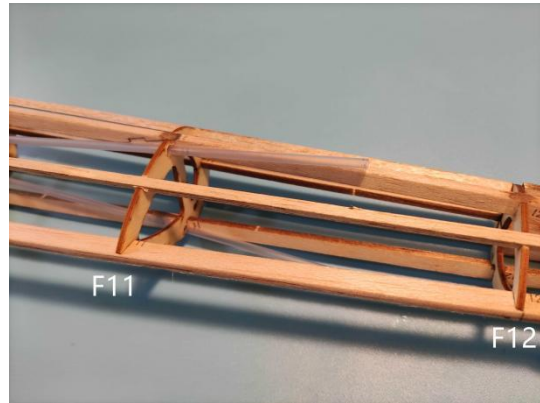
Builder's note:

Part4. Fuselage II

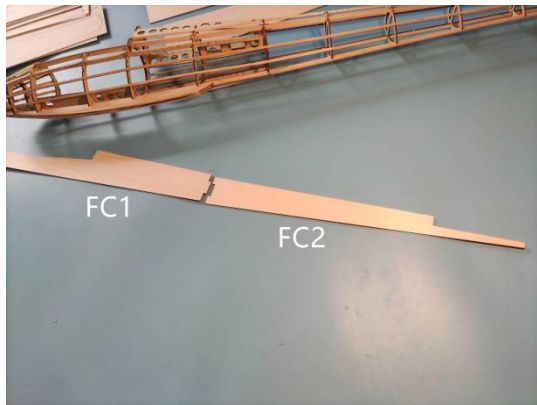
Step 1



Step 2



Step 3



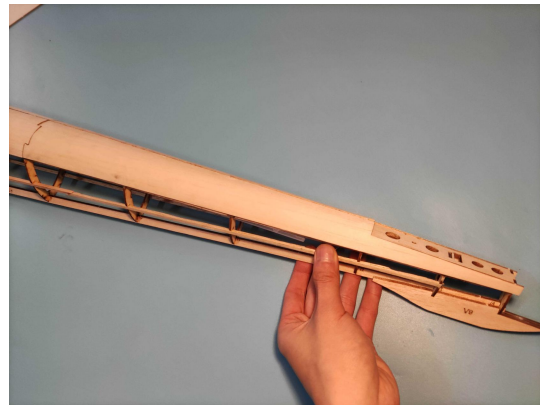
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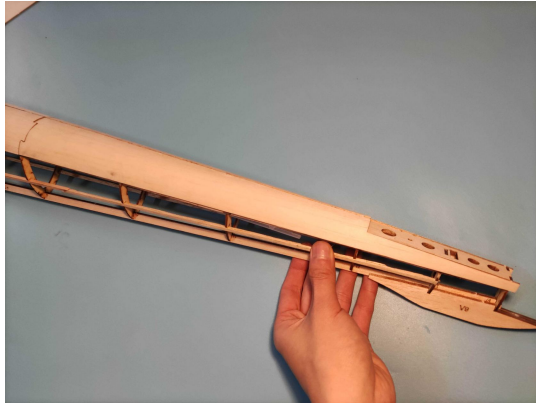
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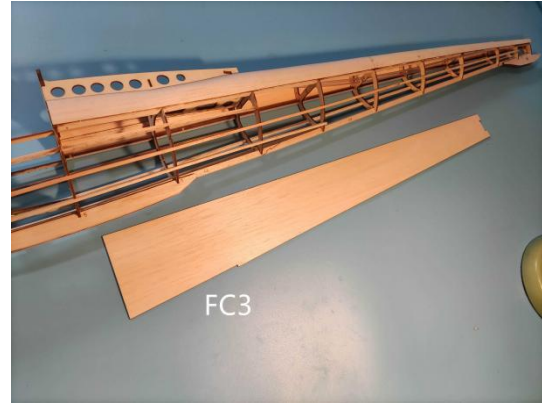
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Step 7



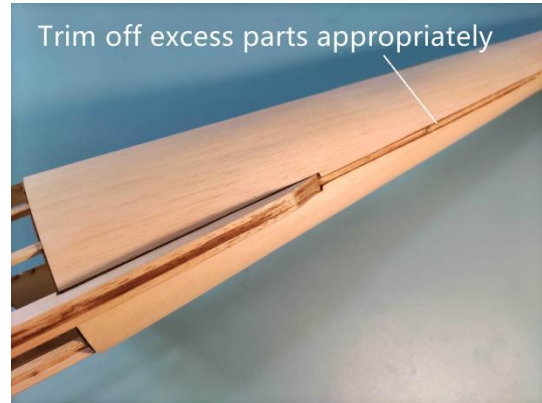
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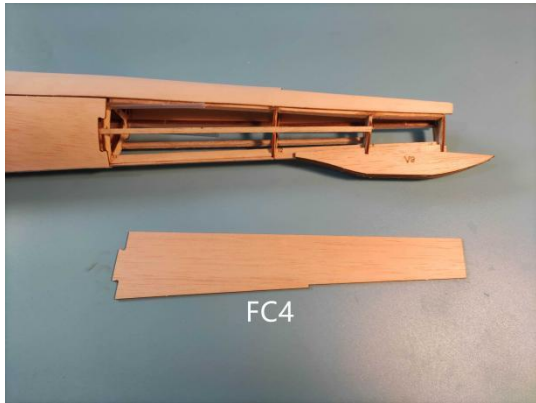
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Step 10



Step 11



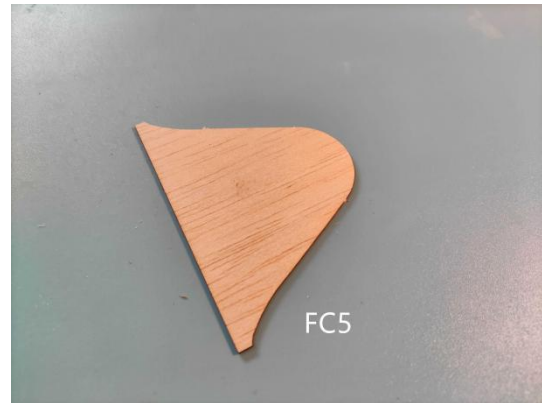
Step 12



Step 13



Step 14



Step 15



Step 16



Step 17



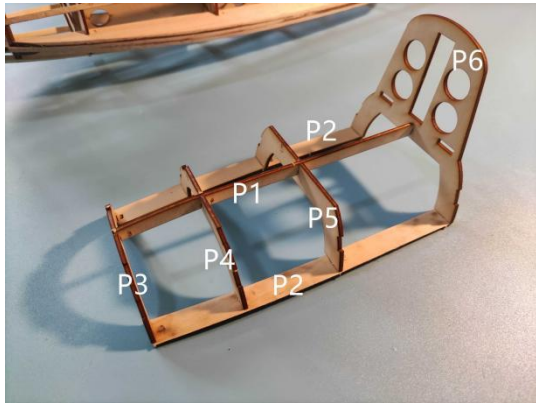
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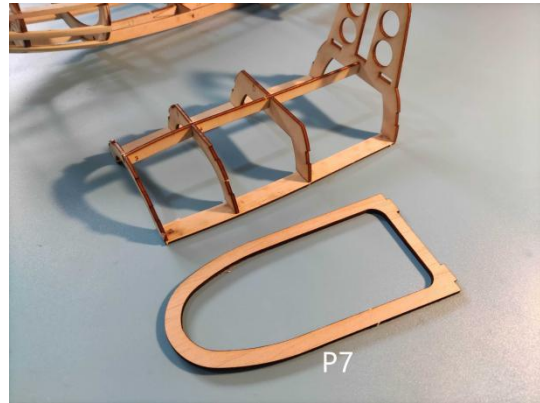
Builder's note:

Part5. Canopy

Step 1



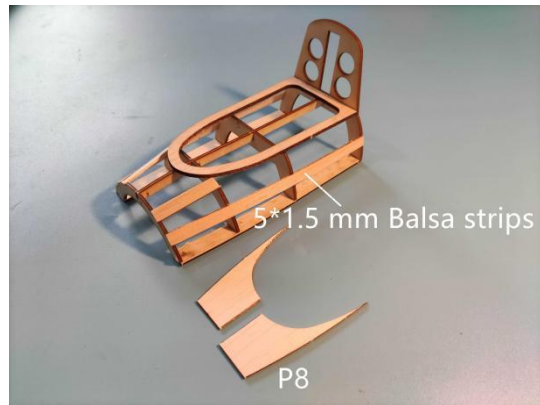
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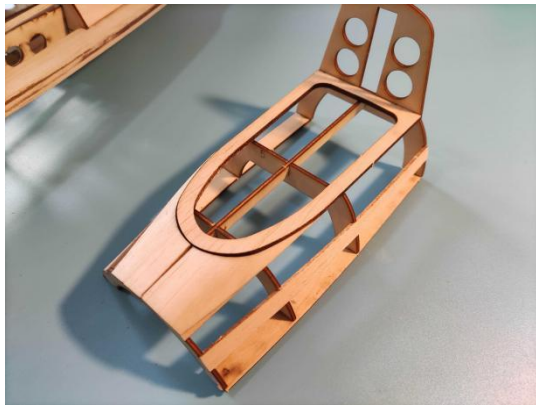
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Step 4



Step 5



Step 6



Step 7



Step 8



Step 9



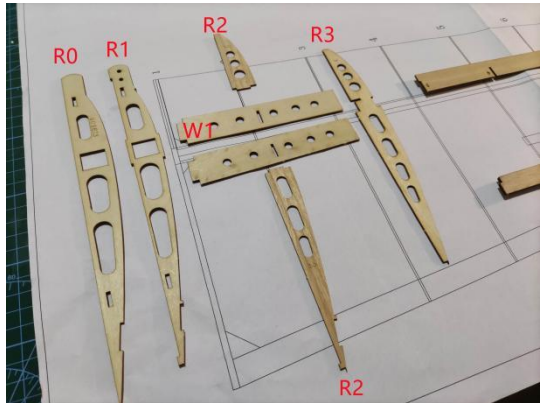
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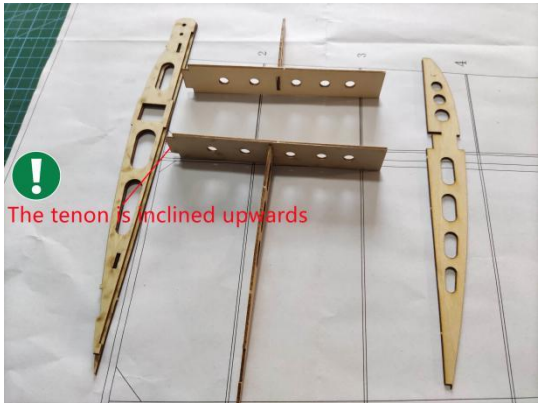
Builder's note:

Part6. The Wing

Step 1



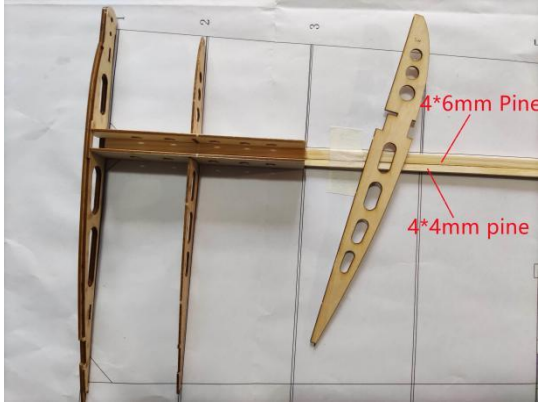
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Step 3



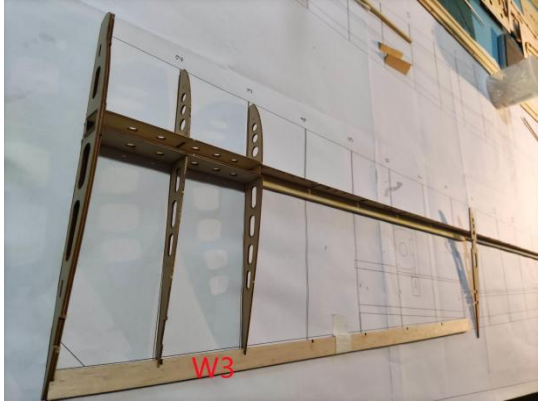
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Step 5



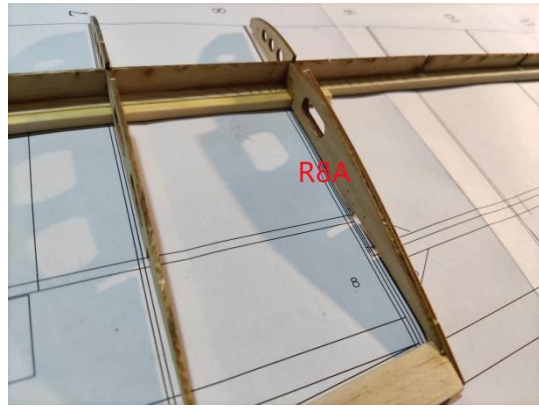
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Step 7



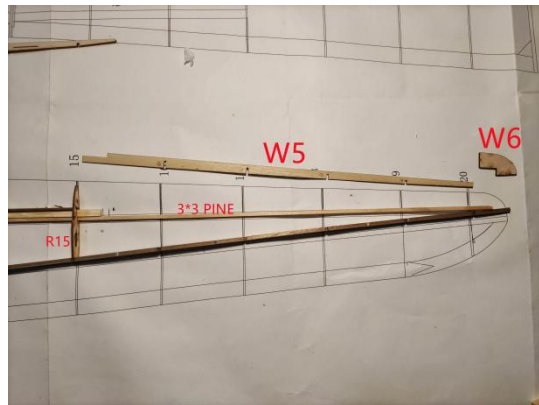
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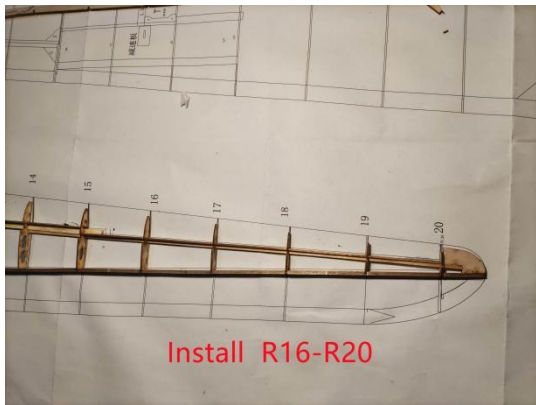
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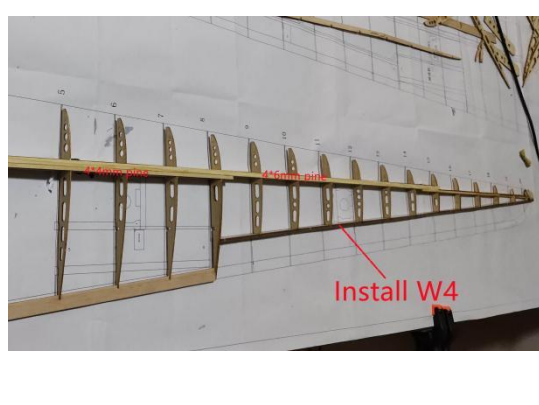
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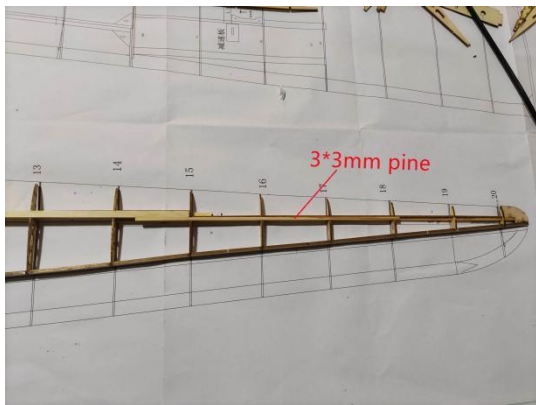
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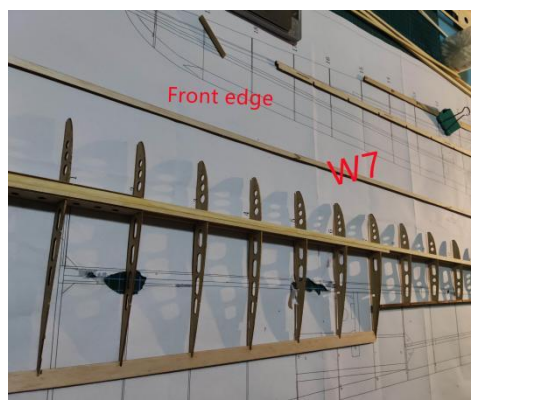
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Step 13



Step 14



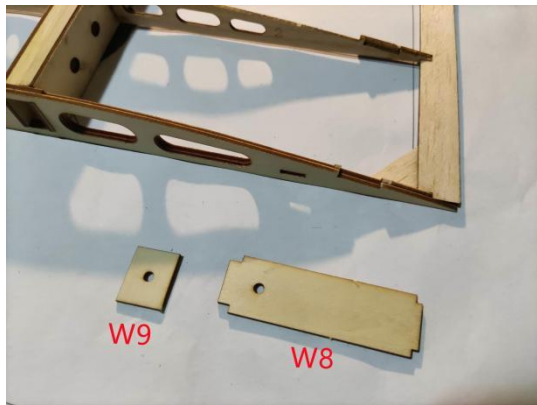
Step 15



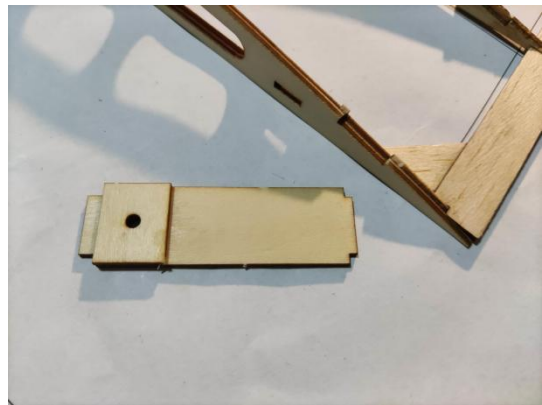
Step 16



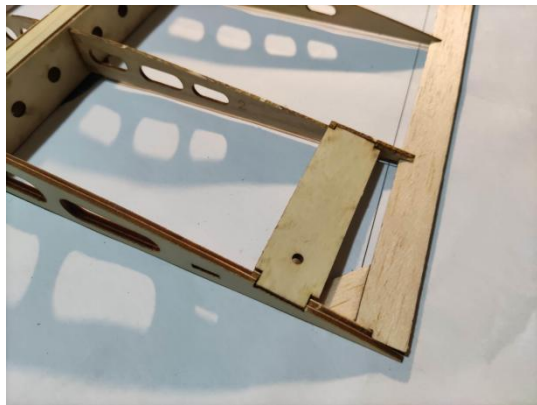
Step 17



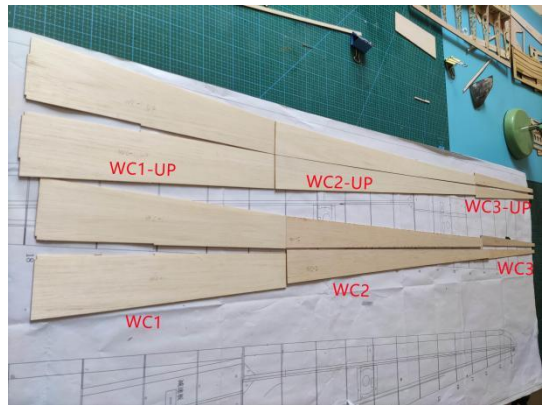
Step 18



Step 19



Step 20



Step 21



Step 22



Step 23



Step 24



Step 25



Step 26



Step 27



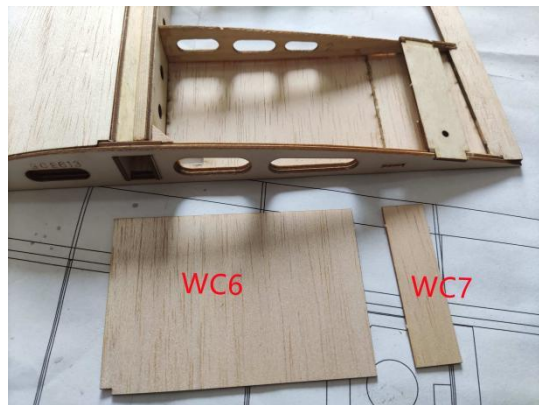
Step 28



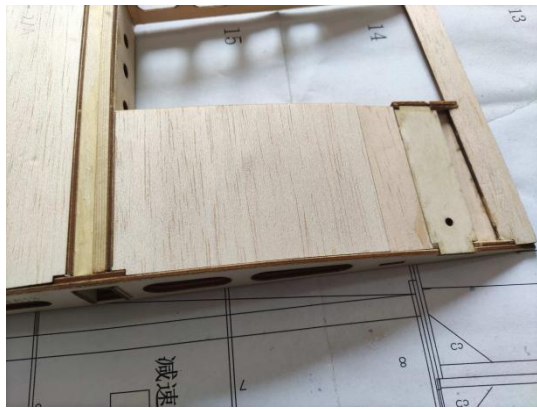
Step 29



Step 30



Step 31



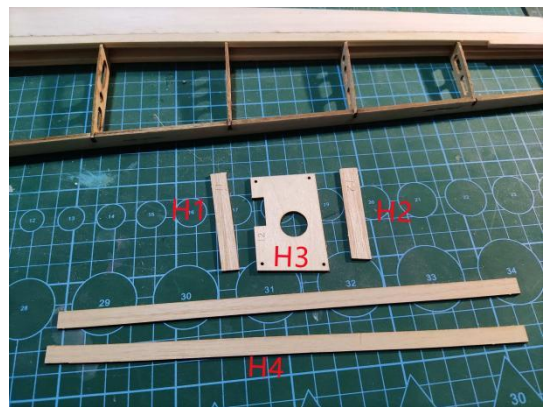
Step 32



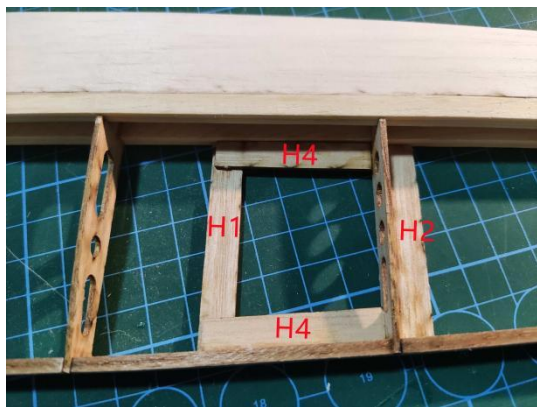
Step 33



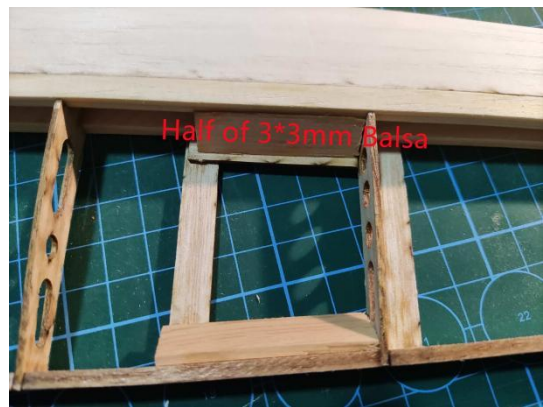
Step 34



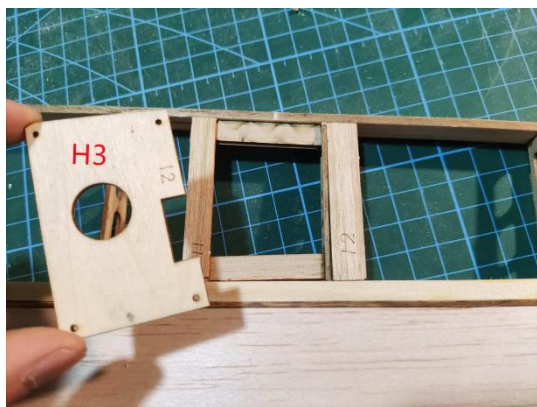
Step 35



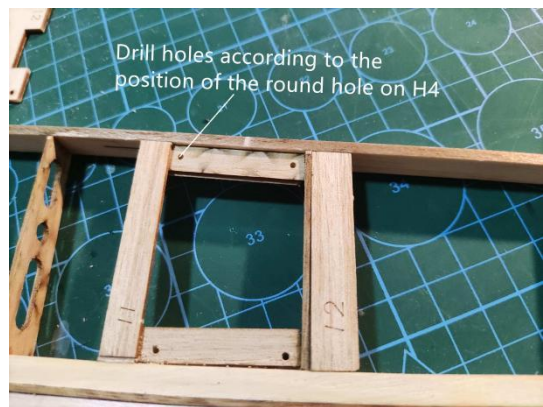
Step 36



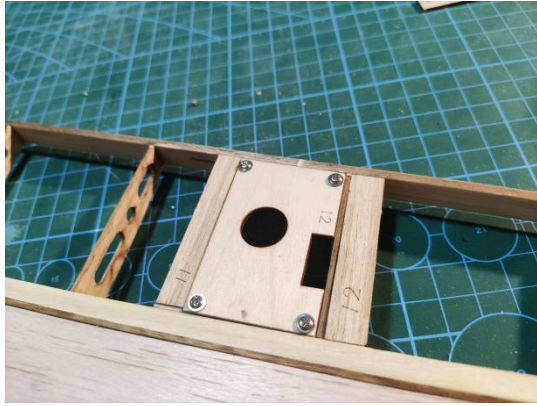
Step 37



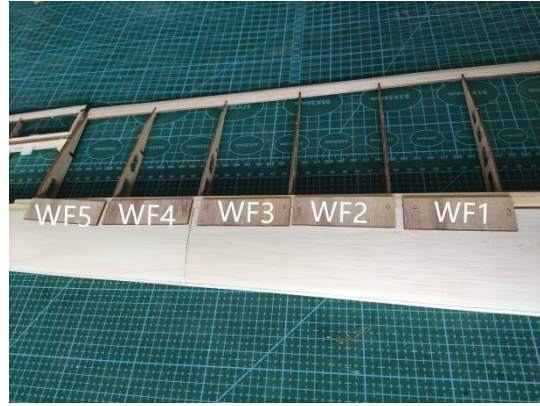
Step 38



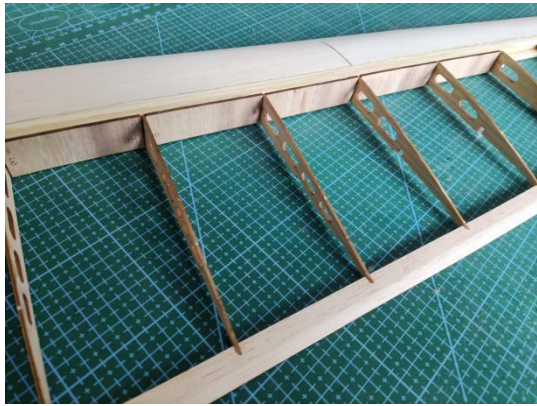
Step 39



Step 40



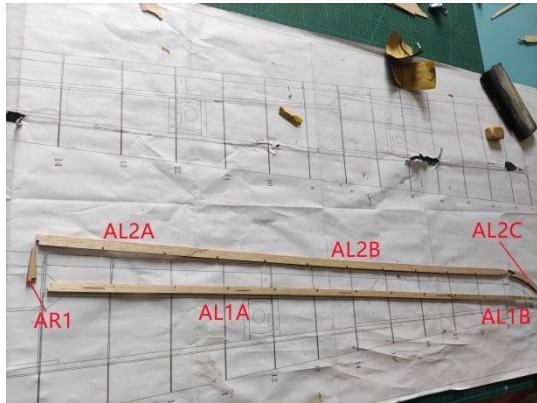
Step 41



Builder's note:

Part7. Aileron

Step 1



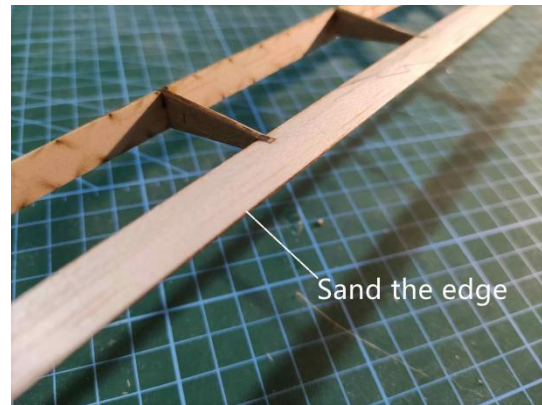
Step 2



Step 3



Step 4



Step 5



Step 6



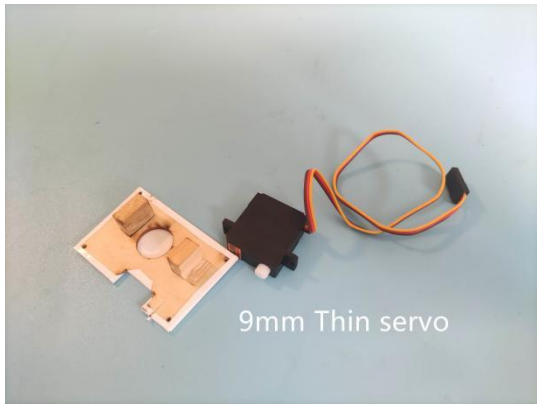
Step 7



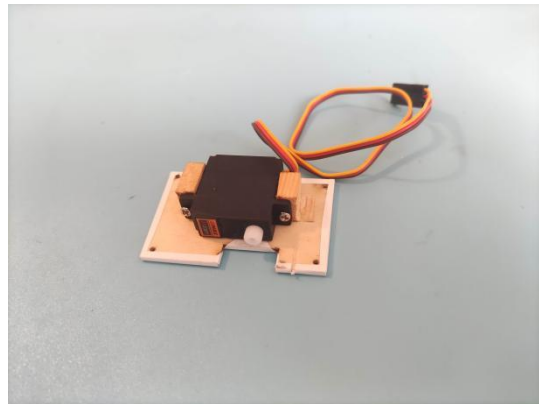
Builder's note:

Part8. Before you fly

Step 1



Step 2



Step 3



Step 4



Step 5



Step 6



Step 7



Step 8



Step 9



Builder's note:

CG: Please refer to the drawing, just below the spar, according to flight test, can move forward 5-10mm

Control Travel	
ELEVATOR	$\pm 15^\circ$
RUDDER	$\pm 15^\circ$
AILERON	$\pm 15^\circ$

Thank you!



Tony Ray's AeroModel

Part Location Lookup Table

The following parts are sorted according to the order in which they appear in the manual

Serial number of Components	Serial number of wood sheet
Part1.Vertical Tail	
V1	B2-b
V2	B2-a
V3	B2-b
V4	B2-b
VR1	A5-b
VR2-VR4	A4-b
VR5	B2-a
VC1	E1-a,E2-a
VC3	E1-a
V5	B3-b
V6	B2-a
V7-V11	B2-b
RR1	A5-b
RR2-RR3	A4-b
V12	B3-b
RR4-RR5	A5-b
V13	B4-a
Part2. Horizontal Tail	
T1	C1-a
T2	B2-a
TR1	B2-b
TR2-TR6	A4-b
T3	D4
T4	B2-b
T5	C1-a
T6	B2-a
VC2	E1-a,E2-a
E1	B2-a
E2	B1-a,B2-a
E3	B1-b,B2-a
E4	D1
ER1	B2-b
ER2-ER6	A4-b
E5	A5-b
E6	D3
E7	B4-a
E8	B2-a
Part3. Fuselage I	

L1A - L1C	B1-a
L2-L3	B1-a
F1	D4
F2	D1,D2
F3	D3
F3B	A4-a
F4	D2
F5	D4
FT2	D1
F5B	D2
FT1	D2
F6-F7	D4
F8-F10	D1
F11-F14	D4
L4A-L4B	B1-a,B1-b
L5A-L5B	B1-a
FT3	D2
FT4	D3
FT5	D4
FT6	B2-a
G1-G2	B1-b
G3-G4	B2-b
Part4. Fuselage II	
FC1	A7-a
FC2	A4-a
FC3	A2-a,A3-a
FC4	A2-a,A3-a
Fc5	A3-b
Part5. Canopy	
P1-P2	D1
P3	D3
P4-P6	D1
P7	B4-a
P8	A4-a
Part6. The Wing	
R0-R1	D2,D3
W1	D2,D3
R2	C2-a,C2-b
R3	F1
W2	C1-a
W3	B2-a
R4	C1-a,C2-a
R5	C2-a

R6	C1-a,C2-a
R7	C2-a,C2-b
R8	F1
R8A	C2-a,C2-b
W4	B3-a
R9	C2-b
R10	C2-a
R11-R19	C2-a,C2-b
R20	D2
W5	C1-a
W6	B4-a
W7	B3-a
R2A	C2-a,C2-b
W8-W9	D3
WC1	A6-a
WC2	A5-a
WC3	A1-b
WC1-UP	A8-a
WC2-UP	A1-a
WC3-UP	A2-b
WC4	A3-b
WC5	A4-a
WC6	A3-b
WC7	A4-a
WC8	A3-b,E1-a
H1-H2	C2-a
H3	D3
H4	C1-b
WF1-WF5	C1-b,C2-a
Part7. Aileron	
AL1A	B3-a
AL1B	B3-b
AL2A	B3-b
AL2B-AL2C	B4-a
AR1	B4-a
AR2-AR13	C1-b
AL3A	A6-a
AL3B	A7-a
AL4	B4-a